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(54) METHOD FOR DETERMINATION OF HYDROGEN PEROXIDE AND REAGENT FOR SAID DETERMINATION

(57)Abstract:

PURPOSE: To determine hydrogen peroxide with high sensitivity by subjecting the chromatic complex formed by bringing a bivalent cobalt compd. and hydrogen peroxide into reaction in the presence of a peroxidase-like material and acting a trivalent cobalt indicator thereon to colorimetry.

CONSTITUTION: The bivalent cobalt compd. is brought into reaction with the hydrogen peroxide in the presence of the peroxidase or the peroxidase-like material. The trivalent cobalt indicator is acted on the trivalent cobalt generated by this reaction. The chromatic complex formed in such a manner is subjected to the colorimetry by an optical means and is thereby measured. The hydrogen peroxide is thus easily determined at the wavelength which is not affected by hemoglobin, bilirubin, turbidity, etc.

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